WC99-1202
Renovations

METLIFE

1WTC 89FL

WTC1-40-P

THE PORT AUTHORITY OF NY & NJ

Memorandum

TO: **Teresa Koebel, Manager, World Trade Project Management**
FROM: C. John Lin
DATE: December 10, 1999
SUBJECT: **WTC– ALTERATION APPLICATION WC991202 – METLIFE – 1 WTC – 89 th FLOOR - RENOVATIONS**
REFERENCE: Review Request dated 11-19-99

COPY TO: A. Fadavi, J. Napolitano, J. Richardson, Chrono Folder, Job Folder

An audit of the material submitted with the referenced request has been made.

There are no comments.

Drawings:

REMARKS: 1) This memorandum was transmitted to the Facility via Outlook on December 10, 1999

Alvin S. Rohesler
for C. John Lin, P.E.
Manager
Quality Assurance Division

I.D.: WC99-1202-001
HV/lm

Reviewers:
H.Vadi, Coordinator; K.Gupta, Architectural; A.Diaz-H, Electrical; Z.Goldenberg, Mechanical; K.Narsule, Plumbing and Fire Protection; W.Lipsky, Structural;

Revised 11/99

SELF CERTIFICATIC

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
TENANT ALTERATION APPLICATION REVIEW REQUEST

12/10

DISTRIBUTION		
No.	To	Facility
1	QAD	PATC Zip 73
1	D. Warren	PATC Zip 43
1	S.P. Chiao	88 S
1	G. Daly	88 S
1	B. Brown	88 S
1	E. Corneliuz/Nick Strenk - LERA	2 WTC 37th Fl
1* 1*	R. Simonetti CADD Disk Set	2 WTC 37th Fl
1	F. DeMartini	88 S
1	P. Negron	2 WTC 37th Fl
1	S. Batra	2 WTC 37th Fl
1	C. Semah	2 WTC 35th Fl

* for each submission

Facility 1WTC Floor 89th TAA No. 99202 Date 11/19/99

Application/Tenant METROPOLITAN LIFE INSURANCE &

Consultant I A INTERIOR ARCHITECTS

Estimated Cost $190,000 Submittal No. ONE (1)

Description of Work

RENOVATION

Please review the attached (revised) application and send comments to:

Name: Carlo J. Saavedra

Location: 1 WTC, 88S Phone No. 435-2922

Fax No.: 435-8168

12/3/99
Due Date

OFFICE COPY

DESIGN DISCIPLINES

- [ ] Architectural
- [ ] Egress Analysis
- [ ] Structural
- [ ] HVAC
- [ ] Plumbing
- [ ] Sprinkler
- [ ] Electrical
- [ ] Utility > 600 V
- [ ] Civil
- [ ] Geotechnical
- [ ] Environmental
- [ ] Fueling
- [ ] Radio Freq. Coord.
- [ ] Corrosion Protection
- [ ] Elevator/Escalator
- [ ] Other

ATTACHMENTS

- [ ] Document List
- [ ] Contract Drawings
- [ ] Contract Specifications
- [ ] Tenant Response
- [ ] Computations
- [ ] Reports
- [ ] Catalog Cuts
- [ ] Other

DESCRIPTION

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV.
DESIGN STANDARDS

NOV 29 1999

WC99-1207

RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

(1)

SPECIAL INSTRUCTIONS

SELF CERTIFICATION

Signature

Copy to: R. Benacchio, T. Koebel, J. Napolitano, L. Menno, E. Monteverde, J. Richardson, J. Ruiz, N. Seliga, F. Varriano

_____(Proj. Mgr.)

_____(Zone Prop. Mgr.)

PA 531 6-73 File Fee # Contract #

THE PORT AUTHORITY OF NY & NJ
One World Trade Center, New York, [illegible] 0048

For Port Authority use only
FACILITY WTC89 APP NO. 991202
DATE 11/19/99 APPLICANT'S NAME MET LIFE

TENANT CONSTRUCTION OR ALTERATION APPLICATION

APPLICANT MUST READ THE TERMS AND CONDITIONS PRINTED ON THE REVERSE HEREOF

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Two hereof on behalf of The Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Two hereof and the terms and conditions set forth on the reverse hereof.

PART ONE: Information to be furnished by Applicant (Refer to your lease or permit for required information)

Permission is hereby requested to perform the following described work on the space occupied by the Applicant

AT (FACILITY)	PURSUANT TO (LEASE, SPACE PERMIT) NUMBER	LOCATION (BUILDING NUMBER OR AREA) OF SPACE TO BE ALTERED
WTC		TOWER 1 89TH FLOOR SUITE # 8927

DESCRIPTION OF WORK AND REASON
DEMOLISH EXISTING INTERIOR PARTITIONS, CONSTRUCT NEW OFFICES, INSTALL "HAWORTH" SYSTEMS FURNITURE. USE EXISTING TRENCH SYSTEM FOR POWER/TEL/DATA. NO STRUCTURAL WORK.

ESTIMATED COST OF WORK	ESTIMATED TIME TO COMPLETE (DAYS)	STARTING DATE	COMPLETION DATE
$ 190,000.00	48	12/06/99	1/15/00

Plans: Prints of each drawing must be submitted with copies of application. Include floor plan and show area affected by proposed work (size 8 1/2" x 11" or larger).

TITLE OF DRAWING	DRAWING NUMBER	DATED
SEE ATTACHED LIST OF DRAWINGS	—	—

NAME & ADDRESS OF CONTRACTOR (IF NOT KNOWN, SUBMIT LATER)

NAME AND ADDRESS OF ENGINEER OR ARCHITECT
IA
335 MADISON AVE
NEW YORK, NY 10017
ANTHONY SAVIANO - TECHNICAL DIRECTOR

TELEPHONE NUMBER (212) 672-0290
LICENSE NUMBER

SEND CORRESPONDENCE TO:
(NAME AND ADDRESS OF EMPLOYEE IN CHARGE OF WORK)
MARK WITTENBERG
335 MADISON, AVE. - SUITE 305
NEW YORK, NY 10017

TELEPHONE NUMBER 212-672-0290

ENGINEER OR ARCHITECT CERTIFICATION

I have supervised the preparation of plans and specifications for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures, and in regard to health and fire protection which would be applicable if The Port Authority were a private corporation.

ANTHONY V SAVIANO REGISTERED ARCHITECT 24352 STATE OF NEW YORK

APPLICANT'S NAME (AS IT APPEARS ON LEASE OR PERMIT)
METROPOLITAN LIFE INSURANCE CO.

BY (SIGNATURE OF AUTHORIZED REP.)	TITLE	DATE	SIGNATURE OF LICENSED PROFESSIONAL ENGINEER OR ARCHITECT	DATE
		8/24/99		11/18/99

The Contractor by signing below agrees to all the terms and conditions on this application and printed on the reverse side thereof, including #5 Indemnifying the Port Authority, and further agrees to be bound by all riders and schedules attached to this application

☒ The Applicant must check here if the Professional Certification Program is elected for tenant construction or alteration at the World Trade Center

OFFICE COPY

Signature: _____ / / Date (Contractor)

Signature: _____ 11/17/99 Date (Applicant Officer/Partner)

Address: _____

Please advise the undersigned, in writing, when this work has been completed.

THE PORT AUTHORITY OF NY & NJ
ENGINEERING DEPT. QUALITY ASSURANCE OF DESIGN STANDARDS

PART TWO: Prepared by Port Authority and returned to Applicant

The above Application is ☐ Approved ☐ Disapproved. Subject to the following conditions:

☐ Continued on Rider "A," "B," "C," "F," and "G" (Rider G will be included only for the Professional Certification Program)

THE PORT AUTHORITY OF NY & NJ

NOV 29 1999
WC99-1202 (1)
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

INSPECTED BY	DATE
	/ /

11/19

BY

TITLE Manager of Tenant and Technical Services/WTD

DATE / /

IA

AN AFFILIATE OF
INTERIOR ARCHITECTS, P.C.

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THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV.
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NOV 29 1999
WC 99-1202
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ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT
(1)

BOSTON

CHICAGO

COSTA MESA

DALLAS

FT. LAUDERDALE

LONDON

LOS ANGELES

NEW YORK

SAN FRANCISCO

SILICON VALLEY

WASHINGTON, D.C.

List of Drawings

November 19, 1999

Architectural:

AN-1 Notes and Legends
AN-2 Notes
AN-3 Notes
AN-4 ADA Notes

A.0-A.1 Demolition and Construction plans
A.2-A.3 Power & Telephone and reflected ceiling plans
A.4-A.5 Finish and Furniture Plans

A 7.1 Interior Elevations

A 8.1 Details
A 8.2 Details
A 8.3 Details

Engineering:

E-1 Lighting plan
E-2 Power plan
E-3 Electrical specifications
E-4 Electrical specifications

M-1 Existing conditions removal plan
M-2 Reflected ceiling plan
M-3 HVAC Specifications

P-1 Plan, notes, legends, specs & Riser diagram

SP-1 Sprinkler Plan, notes & details
SP-2 Sprinkler specifications

335 MADISON AVENUE
SUITE 305
NEW YORK, NY 10017
212-682-6909
212-867-8852 FAX

BASKETWEAVE

Systems Fabric

Grade B PLACES®/UniGroup®

Refer to Price List for current specification information.

Specification Information

Color Code	Color Name
F-6K	Baby Blue
F-7M	Birch
F-6X	Bluegrass
F-7J	Buff
F-AL	Feather Blue
F-AJ	Feather Gray
F-6J	French Blue
F-2E	Ivory
F-6Y	Lavender
F-EA	Natural
F-ED	Orchid
F-EC	Oyster
F-AF	Parchment
F-AH	Soft Lavender
F-JX	Sterling
F-EH	Verdigris

All colorways are subject to dye lot variation.

Technical Information

Weight:	20.0 oz. ± 10% per linear yard
Width:	66"
Content:	100% Recycled Polyester
Backing:	N/A
Directional:	No
Flammability:	ASTM-E-84
	PASS Class A, Haworth Panel
Light Fastness:	AATCC-16A: 40 hours

Note: F-6Y Lavender and F-6X Bluegrass are NOT 100% Recycled

HAWORTH®
furniture for what's next®

Haworth, Inc., One Haworth Center
Holland, Michigan 49423-9576 USA

For information regarding
Haworth products and services,
call (800)344-2600, Extension 45
(US and Canada) or (616)393-3000

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PORT AUTHORITY OF N.Y. &
SLEEPING DEPT. QUALITY ASSURANCE &
DESIGN STANDARDS

NOV 29 1999
WC99-1202 (1)
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ALTERATIONS APPLICATION
CONSTRUCTION REVIEW UNIT

shaw | contract flooring
580 Broadway
New York, NY 10012
tel 212-334-3100
212-351-5515 fax

shaw | contract flooring

Shaw Industries Inc

Fax Cover	This is a confidential message, intended solely for the person to whom it is addressed. If you receive this message in error, please forward it to the correct person, or mail it back to us. Thank you.
To	*Mr Mark Wittenberg*
Fax No.	212.867.8852
From	Randy Lee, Jr
Date/Time	8/10/99 at 4:41 PM
Subject	Flame and Smoke tests
Pages	5, including this one

Please feel free to contact me if you have any questions.

Thanks Randy

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0039811
DATE	04/11/96

CLIENT	NETWORX/DIV. OF SHAW IND.
TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source; also referenced as NFPA 253 and FTM Standard 372

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION	59341 Resonance Square
COLOR	41440 Light Delft
ROLL	165228-5
CONSTRUCTION	Tip Sheared Loop Pile
FIBER	DuPont Antron Legacy
BACKING	Perma Bac

This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

TEST RESULTS:

AVERAGE CRITICAL RADIANT FLUX	.52 Watts/Square Cm

OFFICE COPY

GENERAL PRINCIPLE:

This procedure is designed to measure the critical radiant flux at flame out, of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames of compartment. The test result is an average critcal radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE DIV.
DESIGN STANDARDS

NOV 29 1999

WC 99-1202

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ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100237. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstance in advertising to the general public.

714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-678

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0039811
DATE	04/11/96

CLIENT	NETWORX/DIV. OF SHAW IND.

TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372.

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION	59341 Resonance Square
COLOR	41440 Light Delft
ROLL #	165228-5
CONSTRUCTION	Tip Sheared Loop Pile
FIBER	DuPont Antron Legacy
BACKING	Perma Bac

"This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

FLOORING SYSTEM ASSEMBLY	
SUBSTRATE	Mineral-Fiber/Cement Board
UNDERLAYMENT	Direct Glue Down
ADHESIVE	Sureset 5000

CONDITIONING	Each test sample was conditioned a minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity.

TEST RESULTS:

TEST DATA	DISTANCE BURNED	TIME TO FLAME OUT	CRITICAL RADIANT FLUX
SPECIMEN 1	41 cm	30 minutes	.48 watts/sq cm
SPECIMEN 2	38 cm	34 minutes	.53 watts/sq cm
SPECIMEN 3	37 cm	39 minutes	.55 watts/sq cm

AVERAGE CRITICAL RADIANT FLUX	.52 watts/sq cm
STANDARD DEVIATION	.04 watts/sq cm
COEFFICIENT OF VARIATION	7%

APPROVED BY: Gary A. Autry

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstance in advertising to the general public.

NVLAP

714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-6787

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0039811
DATE	04/11/96

CLIENT	NETWORX/DIV. OF SHAW IND.
TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE:

IDENTIFICATION	59341 Resonance Square
COLOR	41440 Light Delft
ROLL	165228-S
CONSTRUCTION	Tip Sheared Loop Pile
FIBER	DuPont Antron Legacy
BACKING	Perma Bac

TEST RESULTS:

FLAMING	320

GENERAL PRINCIPLE:

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100197. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstances in advertising to the general public.

714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-6787

Professional Testing Laboratory Inc.

TEST REPORT

TEST NUMBER	0039811
DATE	04/11/96

CLIENT	NETWORX/DIV. OF SHAW IND.
TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION	59341 Resonance Square
COLOR	41440 Light Delft
ROLL	165228-5
CONSTRUCTION	Tip Sheared Loop Pile
FIBER	DuPont Antron Legacy
BACKING	Perma Bac

CONDITIONS

PREDRYING OF TEST SAMPLE CONDITIONING OF TEST SAMPLE	24 Hours at 140 degrees F 24 Hours at 70 degrees F and 50% relative humidity		
FURNACE VOLTAGE CHAMBER TEMPERATURE TEST MODE	109 V 95 degrees F Flaming	IRRADIANCE CHAMBER PRESSURE	2.5 watts/sq cm 3" H2O

TEST RESULTS:

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)			320
TEST SPECIMEN	1	2	3
Maximum Density (Dm)	366	369	396
Time to Dm (minutes)	10.3	10.0	10.0
Clear Beam (Dc)	67	51	53
Corr. Max Density (Dmc)	299	318	343
Density at 1.5 minutes	1	1	1
Density at 4.0 minutes	185	191	209
Time to 90% Dm (minutes)	7.7	5.8	5.4
Specimen Weight (grams)	30.8	30.2	30.2

AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES: 195

APPROVED BY: Gary Calvary

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NVLAP

714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-6787

[redacted]

Quality Assurance Division
Design Standards

TAA No. WC99-1202 Charge Code:

Tenant:

REVIEW STATUS

Submission No. & Date	Response To	Coordinator's Initial	Memo Date	Approval Date	Facility Rider	Outstanding Comments	Remarks/Status
1) 11/19/99		HV	12/10/99	12/10/99		0	Audited

WC99-1202
Renovations

METLIFE
1WTC 89FL